

Memo

date: December 12, 2013

to: C-A Experimental Safety Review Committee (ESRC)

from: Yousef Makdisi

subject: Minutes of the Annual Review of PHENIX for the FY'14 Run

Present: D. Beavis, P. Cirnigliaro, F. Craner, M. Cubillo, A. Drees, A. Etkin,
M. Gaffney, G. Greene, R. Karol, M. Kretschmann, R. Lambiase, E. Lessard,
Y. Makdisi, A. Pendzick, D. Phillips, J. Tuozzolo, P. Sampson, P. Sullivan,
M. Van Essendelft,

S. Boose, D. Lynch, P. Giannotti, R. Pisani

The annual review covered:

The status of those detectors installed from previous runs:

The VTX and FVTX detectors package was removed for repairs and re-installed along with modifications to the respective cooling system were put in place for this run.

The Drift Chamber East window was replaced.

The Drift Chamber West was opened to repair broken wires.

The temporary RPC1 North and South cooling system was upgraded to increase the airflow and explosion proof blowers were utilized. Also added better thermal monitoring.

The MPC (S) detector wiring was rerouted to allow for the installation of the MPC-EX prototype.

The MPC-EX (S) test prototype was installed along with its readout system.

The MuTr capacitor work was also carried out.

Several of these items required the installation of special scaffolding. This was carried out with proper engineering reviews and work planning and inspection.

The new Window Washer winch was installed.

For this run PHENIX will use an ethane tube trailer. This was reviewed separately by a lab safety subcommittee. The PHENIX gas system's drawing have been updated.

This shutdown also included removing a good fraction of the existing RPC3 shielding in the tunnel (N&S) and modifying the "garage" section to allow movement of the DX magnets for p-A running in Run15.

Work continues on new protective gates at various locations on the PHENIX platforms.

There were no changes to the PHENIX Safety System.

Lynch covered the overall PHENIX detector plans existing systems and status. Boose covered the electrical aspects of the MPC-EX, and Pisani covered the gas systems. The following are the action items:

- **Provide a procedure to test the window washer interlocks (Lynch Jan 15, 2014)**
- **Add postings of the load bearing capability of the grating installed adjacent to the IR sill (Phillips, Lynch Jan 15, 2014)**
- **Complete the platform gates installation (Phillips Jan 15, 2014)**
- **Provide the new flammable gases leak rates (Pisani, Jan 10, 2014)**
- **Provide the updated gas usage quantities (Pisani Jan 10, 2014)**
- **Add a caution sign not to fill Novec bottles or containers from the Novec storage drum more than 90% full. (Pisani Jan 10, 2014)**
- **Carry out the Blue Sheeting (CAS, Phillips Feb 1, 2013)**
- **Document the new ethane installation and leak and pressure testing (Biggs Jan 15, 2014)**
- **Provide updated sweep procedures (Sampson Jan 15, 2014)**
- **Carry out an inspection of the installed platform gates (Cirnigliaro Feb 1, 2014)**

General:

- **Update the PHENIX ECR. (Craner, Jan 15, 2014)**
- **Update the PHENIX work plan if necessary (Cirnigliaro Jan 15, 2014)**
- **Carry out a magnetic safety review (Phillips Jan 10, 2014)**
- **A walk through of the PHENIX detector prior to introduction of flammable gas. (Makdisi et al Jan 10, 2014)**
- **Update the documented work procedures. (Lynch Continuing from last year)**
- **Establish trained PHENIX watch shifts. (O'Brien Jan 10, 2014)**

cc:

B. Mueller
E. O'Brien
P. Pile
T. Roser
File

